In re Application of: Legge et al.
Application No.: 10/658,162

Amendments to the Specification

Amend paragraph [0064] as follows:

[0064]   Referring again to FIG. 8, workpiece 2 in the first working position is shown having interrupted cuts 136, 137, 138, 139, 140, and 141 all terminating within the overlap zone 79. Magnified views 142 and 143 show target images 144 and 145 etched into the surface of workpiece 2 within the overlap zone 79. Upon completion of processing the workpiece 2 in the first working position and in preparation to index the work support 4 to a second working position, the target images 144 and 145 are etched into the surface of the workpiece 2 by the laser 30 and the workhead 47 spaced as far apart as practical in the Y coordinate 45 FIG. 4. Referencing FIG. 9A, the nozzle 52 of the workhead 47 is positioned over the image target 144 and the Z-axis is lowered until the nozzle 52 reaches the commanded standoff distance 116. Auxiliary side jet apparatus 146 FIG. 9A is a gaseous blast source typically used for piercing carbon steel. The auxiliary side jet apparatus 146 is cycled to blow any residue from the cutting process off of image target 144. The Z-axis position is frozen such that the capacitive sensor 115 ignores any change in standoff height. The workhead 47 is moved the offset distance 120 such that the image sensor lens 88 is approximately centered over the target 144, reference FIG. 9B. The inspection camera 80 captures an image of the target 144. The commercially available inspection camera has integrated measurement tools which are used to determine the position of target 144 relative to the center of the field of view. The position of target 144 is stored in computer memory. The Z-axis position is unfrozen and the nozzle 52 of the workhead 47 is positioned over image target 145. In like manner the position of image target 145 is measured and stored in computer memory. The X and Y distance of image target 145 and rotation angle relative to target 144 are calculated and stored in computer memory. The workhead 47 [[26]] is then moved to a target location for a post index inspection proximate X "0" and the work support 4 is indexed to a second work position.